



# STEM ENRG Database

## Project Components

### Phase One

Recommended Milestone Completion Date: TBA - Waiting for UI/UX Research to be completed

*Component considered complete when all team members and stakeholders agree with and approve of all created wireframes and mockups.*

#### 1) Create wireframe to guide UX/UI:

Use any design/planning software to achieve this like:

- [Canva](#)
- [Miro](#)
- [Figma](#)

#### Resources:

- [How to Make a Wireframe](#)
- [How to create your first Wireframe](#)
- [A Step-by-Step Guide for Beginners: How to Make a Wireframe](#)



#### 2) Create mockup to further guide UI, style, and branding consistencies:

Use any design/planning software to achieve this like:

- [Canva](#)
- [Miro](#)
- [Figma](#)

#### Resources:

- [A complete guide to designing mobile app and website mockups](#)
- [Get the perfect website layout in 27 steps](#)
- [What is the difference? Wireframe vs. Mockup vs. Prototype](#)

### Phase Two

Recommended Milestone Completion Date: TBA

*Component considered complete when all minimum required pages are created with HTML structure and styled with corresponding CSS scripts.*

Create the HTML structure of all the pages on the web application



Create the CSS of all the pages on the web application

*Relevant Resources listed on Page 3 and 4.*

## Phase Three

**Recommended Milestone Completion Date: TBA**  
*Component considered complete when all required JavaScript code is added and produces expected results on local version/tests on the web app AND the app is successfully connected and integrated into the Firebase Console.*

Incorporate required and optional JavaScript to create reactive events on/between web pages AND create connectivity to the Firebase Console.

*Relevant Resources listed on Page 3 and 4.*

## Phase Four

**Recommended Milestone Completion Date: TBA**  
*Component considered complete when all minimally required pages are built, all minimally required responsive/reactive events are coded and functional, the app has proper database storage that is accessible, the app is deployed onto the Firebase Console, and the app is ready for proper iterative testing.*

Ensure that all forms created across the web app have corresponding and connected databases in the Firebase Console through Firebase's Realtime Database or Firebase's Cloud Firestore.

*Relevant Resources listed on Page 3 and 4.*

## Phase Five

**Recommended Milestone Completion Date: End of Class / Project**  
*Component considered complete when stakeholder participates in testing and gives approval and acceptance of final product.*



# Pages/Component Resources

## Pages that need to be built:

1. Landing Page (w/ log-in as well)
2. Sign-up/Log-in Page (minimally required for staff, member/participants if possible)

## Resources to help build these pages:

- [Firebase Authentication Web App - Javascript](#)
- [How to create a login form \(HTML/CSS\)](#)
- [How to Make a Landing Page with HTML, CSS, and JavaScript](#)
- [Connecting Firebase to a Contact Form \(Video\)](#)
- [Adding Firebase to your javascript project](#)

## Pages that need to be built:

1. One-word check in Page (Form -> Data to fill Mood Tracker page) (OPTIONAL IF TIME ALLOWS)
2. Wins/Goals Input Log (Form -> Data to fill backend data base with a copy sent to members) (OPTIONAL IF TIME ALLOWS)
3. Weekly Attendance Log (Form -> Data to fill backend database) (OPTIONAL IF TIME ALLOWS)

## Resources to help build these pages:

- [Build a Survey Form Using HTML and CSS](#)
- [Connect Registration Form to Firebase](#)
- [Connecting Firebase to a Contact Form \(Video\)](#)
- [Adding Firebase to your javascript project](#)

## Pages that need to be built:

1. Member Progress Tracker (Dashboard filled with data from the backend)
2. Team Progress Tracker (Dashboard filled with data from the backend) (OPTIONAL IF TIME ALLOWS)
3. Mood Tracker (Dashboard filled with data from the backend) (OPTIONAL IF TIME ALLOWS)

## Resources to help build these pages:

- [Build a Responsive, Modern Dashboard Layout With CSS Grid and Flexbox](#)
- [HTML and CSS Tutorial: Lets Build a Dashboard \(Video\)](#)
- [Getting Started with Firebase's realtime database](#)
- [D3js Documentation](#)
- [Google Analytics with Firebase](#)

# Pages/Component Resources Cont.

## Components that need to be built:

1. Backend Database (Through Firebase Realtime Database OR Firebase Cloud Firestore)

## Resources to help build these pages:

- Getting Started with Firebase's realtime database
- Introduction to the Admin Database API
- Google Analytics with Firebase

## Components that COULD be built:

1. Milestone Reminders to Members

## Resources to help build these pages:

- [Firebase Cloud Messaging](#)

## Project Flow Summary

